

Attorney Docket No.: Heraeus 384-WCG
P09901 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Dr. Matthias SCHAUB, Michael FRECKMANN and Holger URBAS
Serial No. : To Be Assigned
Filed : Herewith
For : THE USE MIXTURES AS IMPRESSION OR DOUBLING COMPOSITIONS IN THE DENTAL AREA
Art Unit : To Be Assigned
Examiner : To Be Assigned

January 22, 2002

BOX PATENT APPLICATION
Hon. Assistant Commissioner For Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

In advance of prosecution, kindly amend the above-identified application as follows
and consider the following remarks:

IN THE ABSTRACT

Please cancel the Abstract and substitute the Abstract annexed hereto.

IN THE CLAIMS

Please cancel the previous versions of the following claims and replace them with the following rewritten versions. Marked up copies showing the amendment since the previous versions are annexed as separate pages.

Claim 1 (amended). A dental impression or doubling composition, comprising

- A) alkoxysilyl-functional polyethers with linear or branched main chains with an average molecular weight (M_n) of 800 to 20,000, containing 20 to 95 percent of polyether groups and 0.2 to 25 percent of $\text{SiR}^1\text{R}^2\text{R}^3$ alkoxysilyl groups, in which R^1 , R^2 and R^3 , independently of one another, are hydrogen, alkyl or alkoxy, and 0 to 10 percent of urethane groups or 0 to 10 percent of urea groups, and
- B) a mixture, containing water and organic acids, inorganic acids or both in a ratio by weight of 1 : 0.01 to 1 : 40.

Claim 2 (amended). The dental impression or doubling composition of claim 1, wherein component A) has a branched main chain.

Claim 3 (amended). The dental impression or doubling composition of claim 1, wherein component A) is free of urethane groups.

Claim 4 (amended). The dental impression or doubling composition of claim 1, wherein component A) has an average molecular weight (Mn) of 1500 to 15000.

Claim 5 (amended). The dental impression or doubling composition of claim 1, wherein component A contains 2 to 15% –SiR¹R²R³ alkoxy silyl groups.

Claim 6 (amended). The dental impression or doubling composition of claim 1, wherein components A) and B) are offered in tubes, tubular bags or double cartridges.

REMARKS

This Preliminary Amendment is being filed to eliminate multiple dependency, and to conform the claims to conventional format.

For the record, Applicants emphasize that although the claims were amended, and, therefore, might be argued to have been amended for a reason substantially related to patentability, a fair reading of the amended claims will reveal that the departures from the previous claims were for clarification purposes only, and that Applicants did not narrow the claims in any material respect. Therefore, Applicants submit that the amended claims are entitled to the full range of equivalents.

Early and favorable action is earnestly solicited.

ADDITIONAL FEE

Please charge any insufficiency of fees, or credit any excess, to Deposit Account No.
14-1263.

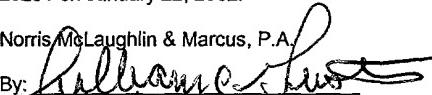
Respectfully submitted,

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I hereby certify that this paper is being deposited with the United States Postal Service as Express Mail, Label No. EL867733089US to: BOX PATENT APPLICATION, The Hon. Assistant Commissioner for Patents, Washington, D.C. 20231 on January 22, 2002.

Norris McLaughlin & Marcus, P.A.
By: 
Date: 1/22/02

MARKED-UP COPIES OF AMENDED CLAIMS,
SHOWING CHANGES RELATIVE TO PREVIOUS VERSION

Claim 1 (amended). [Use of mixtures containing] A dental impression or doubling composition, comprising

- A) alkoxy-silyl-functional polyethers with linear or branched main chains with an average molecular weight (M_n) of 800 to 20,000, containing 20 to 95 percent of polyether groups and 0.2 to 25 percent of $\text{SiR}^1\text{R}^2\text{R}^3$ alkoxy-silyl groups, in which R^1 , R^2 and R^3 , independently of one another, are hydrogen, alkyl or alkoxy, and 0 to 10 percent of urethane groups or 0 to 10 percent of urea groups, and
- B) a mixture, containing water and organic acids, [and/or] inorganic acids or both in a ratio by weight of 1 : 0.01 to 1 : 40[,
as impression or doubling composition in the dental area].

Claim 2 (amended). The [use of mixtures] dental impression or doubling composition of claim 1, wherein component A has a branched main chain.

Claim 3 (amended). The [use of mixtures of claims 1 or 2] dental impression or doubling composition of claim 1, wherein component A is free of urethane groups.

Claim 4 (amended). The [use of mixtures of one of the claims 1 to 3] dental impression or doubling composition of claim 1, wherein component A) has an average molecular weight (Mn) of 1500 to 15000.

Claim 5 (amended). The [use of mixtures of one of the claims 1 to 4] dental impression or doubling composition of claim 1, wherein component A contains 2 to 15% $-\text{SiR}^1\text{R}^2\text{R}^3$ alkoxy silyl groups.

Claim 6 (amended). The [use of mixtures of one of the claims 1 to 5] dental impression or doubling composition of claim 1, wherein components A) and B) are offered in tubes, tubular bags or double cartridges.

Abstract of the Disclosure

A dental impression or doubling composition comprising alkoxy silyl-functional polyethers, having 20-95% polyether groups, 0.2 to 25 % SiR¹R²R³ groups and 0-10% urethane or urea groups, and a mixture comprising water and organic or inorganic acids, or both.